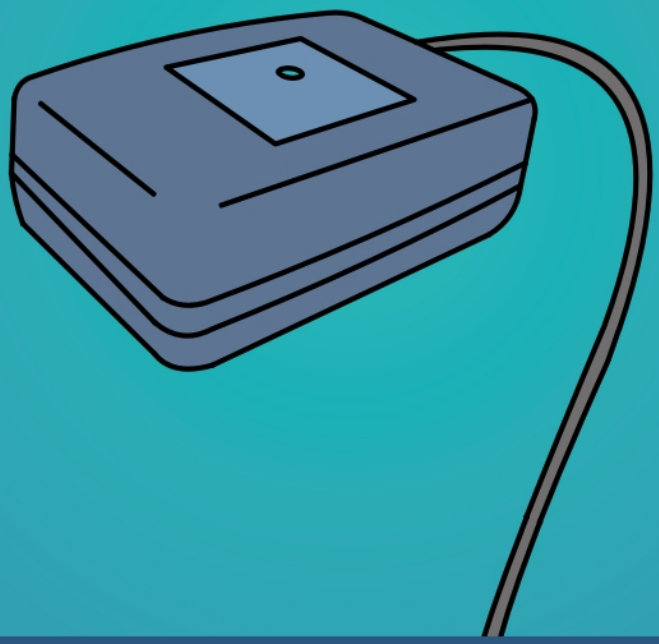
DeluoGPS™

Quick Start Guide

Deluo Mouse Type GPS



Contents

Contents 2

Things to remember 3

Installation on PocketPC 4

Installation on PC with Serial Adapter 5

Installation on PC with USB Adapter.....6

Verifying your GPS installation.....8

How to change the assigned COM Port 10

How to disable the MS BallPoint ("jumping mouse" problem):.....11

Deluo GPS Diagnostics software.....12

Frequently Asked Questions.....13

Contact us 14

Minimum system requirements

- Pentium 166MMX
- 32MB of RAM
- Windows 98SE, Me, 2000 or XP. Mac OS or Linux (Kernel 2.4 or later)

Things to remember

- When you first use the GPS, please make sure that you are outside with good view of the sky. It takes about 2-5 minutes to locate the satellites for the first time. However, it will locate much faster during the subsequent uses.
- Only one GPS application can access the GPS at one time. If you are using Deluo GPS Diagnostics Software, please quit before starting another program.
- The optimal GPS placement is either on the dash or the roof. Direct view of the sky will improve the performance.
- Your Deluo GPS obtains information from the “free” system of 24 GPS satellites orbiting the earth. You should be able to get a position during any time of the day from any place on the surface of the earth provided you have a clear view of the sky. The number of satellites that your GPS is able to acquire (max. of 12) depends on the time of day and your location.

Installation on PocketPC

Deluo GPS does not need a driver to operate on PocketPC powered PDA except for Toshiba e330/335/740/750 models. Please download the Toshiba driver from http://support.deluoelectronics.com

1. Turn on the PDA
2. Plug the PDA adapter PS/2 (or mini-din) type connector into the GPS output connector (shown as #1 below).
3. Insert the GPS to the sync port on the bottom of your PDA (shown as #2 below).
4. Plug the cigarette lighter adapter to your vehicle's power outlet (shown as #3 below).
5. If you already know the GPS COM port and baud rate (usually COM 1 and 4800bps), you can manually specify COM port and baud rate by clicking on your favorite navigation application.

Installation on PC with Serial Adapter

1. Plug the serial adapter PS/2 (or mini-din) type connector into the GPS output connector (shown as #1 below).
2. Insert the serial (RS-232) DB-9 female connector, (shown as #2 below) into the serial port of your computer (shown as #4 below). This cable is used to transmit data from your GPS to your computer.
3. Insert the PS/2 (or mini-din) connector (shown as #3 below), into the Mouse/Keyboard interface in the computer (shown as #5 below). This cable is used to transmit power from the computer to the GPS receiver.
4. Turn on your computer and start using your Deluo GPS.

Note: *this unit does not require drivers to be installed in the computer. Your mapping software should automatically detect the GPS unit. If your software does NOT detect the GPS unit, please see the Troubleshooting section. Follow the instructions under "Deluo GPS Diagnostics software" to check the proper functioning of the device.*

Installation on PC with USB Adapter

Windows 98SE/Me

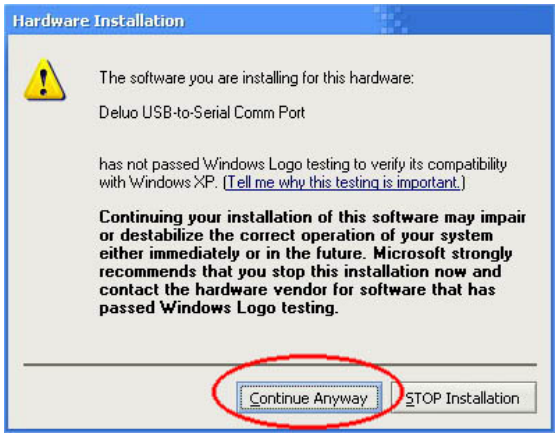
1. Turn on your computer and wait for the Windows operating system to load.
2. Insert the Deluo Drivers and Tools CD. A webpage with Installation menu should open. If it doesn't, double click on My Computer on the Desktop and then double click on your CD drive. On this CD, you will see a file called "index.html", please double click this file to start the installation procedure.
3. Choose your GPS connection type, in this case "USB".
4. Click on "Install USB GPS Drivers and Tools."
5. When the installation process has finished, you can close the web browser.
6. Plug in the Deluo GPS with USB connector to your USB port and start using it!

Windows 2000/XP

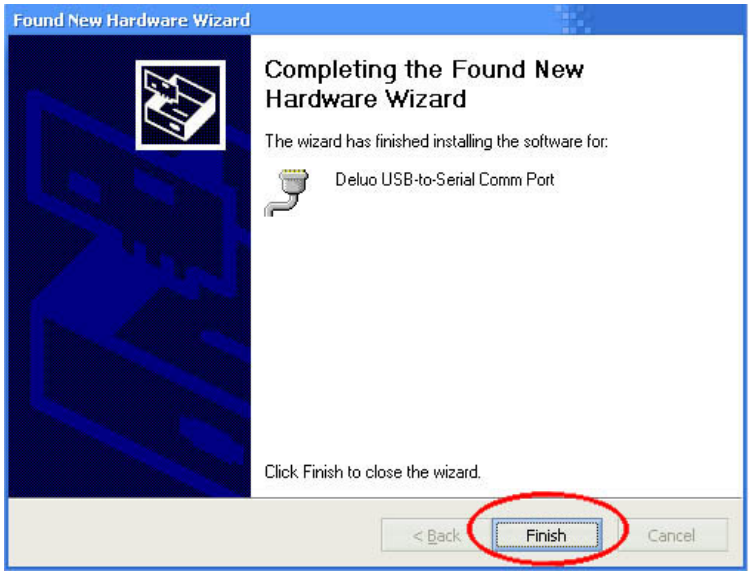
Important: before installing the driver on Windows XP, please visit the Microsoft website and install the latest Service Pack (SP1 or higher).

1. Turn on your computer and wait for the Windows operating system to load. After loading, insert the Deluo Drivers and Tools CD.
2. A webpage with Installation menu should open. If it doesn't, double click on My Computer on the Desktop and then double click on your CD drive. On this CD, you will see a file called "index.html", please double click this file to start the installation procedure.
3. Choose your GPS connection type, in this case "USB".
4. Click on "Install USB GPS Drivers and Tools."
5. When the installation process has finished, close the Installation Program.
6. Plug in the Deluo GPS with USB adapter. Your computer should say "Found New Hardware", "USB Device".
7. The drivers will automatically be installed.

Note: during the installation process on Windows XP a popup window like this may appear. It will tell you that the software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP, just click ***Continue***



8. Once a Deluo device is detected, finish the installation by clicking on **Finish**.



Verifying your GPS installation

How to verify the assigned COM Port

Deluo GPS with serial adapter

To find out which COM port you have connected your Deluo GPS receiver to you will have to check the documentation for your computer and the connector where you plugged in the unit. Usually it will be COM1 or COM2. You can also use the auto detect feature of Deluo GPS Diagnostics software (see page 12).

Deluo GPS with USB adapter

Windows 98SE/Me/2000

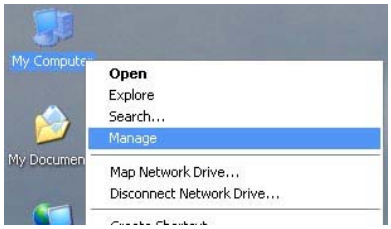
1. Click on Start > Control Panel
2. Double click on System icon.
3. Select **Hardware** tab.

4. Click on **Device Manager...** button.

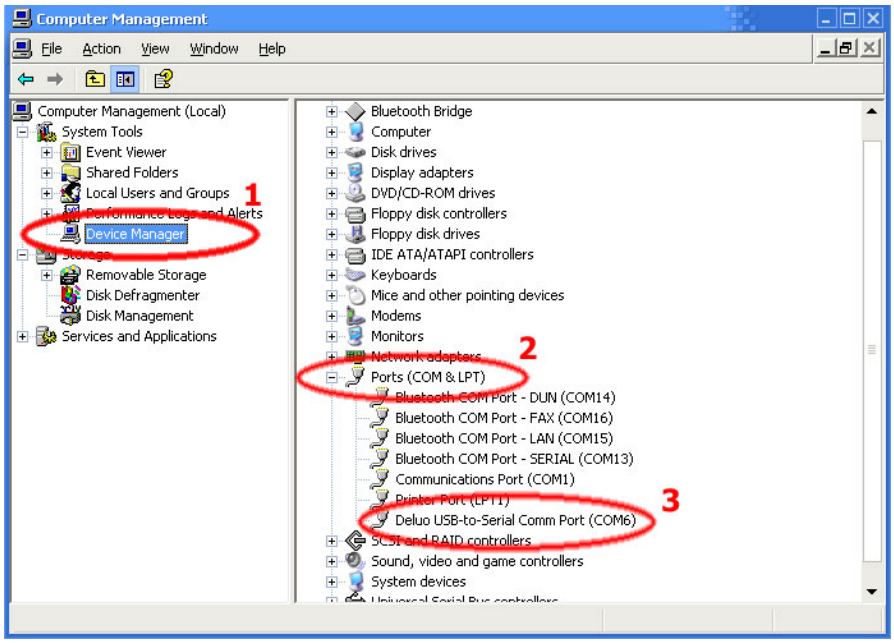
5. Under COM and LPT ports branch you will find a “Deluo USB-to-Serial Comm Port” entry with the assigned COM port between brackets (see figure below).

Windows XP

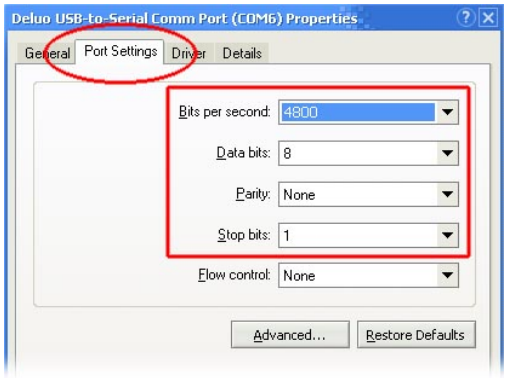
1. Open your PC "Device Manager". To do this, right-click on “My Computer” icon on your desktop.



2. A new window will open showing many items including the communication ports list (see #2 below).



3. Under COM and LPT ports branch you will find a “Deluo USB-to-Serial Comm Port” entry (see #3 above), double-click on it to open that item’s properties window.



4. Click on Port Settings tab and change the Bits per second value to “4800”, Data bits to “8”, Parity to “None” and Stop bits to “1”.

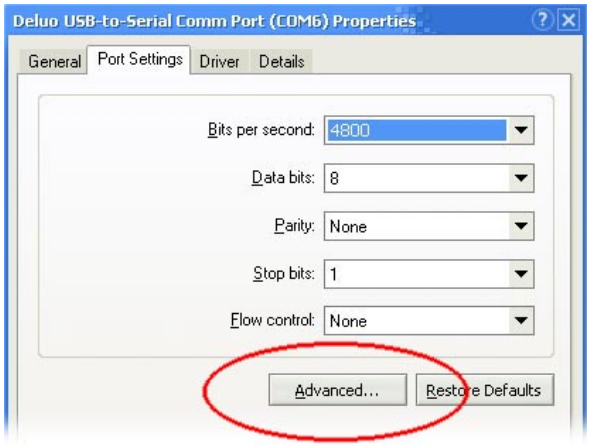
How to change the assigned COM Port

Windows 98SE/Me

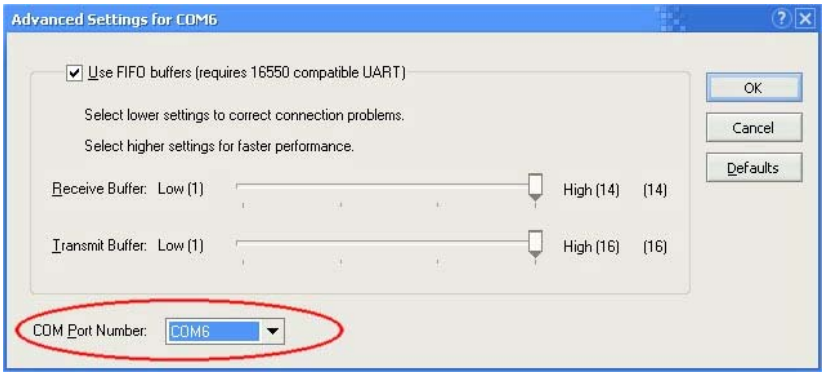
1. Open your Device Manager and double click on “Deluo USB-to-Serial Comm Port”. Properties window will open.
   Note: if you do not know how to open the Device Manager and get to the “Deluo USB-to-Serial Comm Port”, please read “How to verify the assigned COM Port” on page 8.
2. Click on "Advanced" button.
3. You will see the COM port number that the GPS receiver is connected to. To change it, click on the drop-down list and choose the desired COM port.
4. Click OK to accept changes.

Windows 2000/XP

1. Open your Device Manager and double click on “Deluo USB-to-Serial Comm Port”.
   Note: if you do not know how to open the Device Manager and get to the “Deluo USB-to-Serial Comm Port”, please read “How to verify the assigned COM Port” on page 8.
2. Properties window will open
3. Click on Advanced… button.



4. You will see the COM port number that the GPS receiver is connected to. To change it, click on the drop-down list and choose the desired COM port.



5. Click OK to accept changes.

How to disable the MS BallPoint ("jumping mouse" problem):

If your Windows system recognizes the USB GPS as MS BallPoint Serial Mouse, it is because the NMEA data that the GPS is sending matches the pattern data sent by a BallPoint mouse. In this situation, Windows starts to behave erratically and the mouse pointer appears to jump across the screen.

To solve this issue, please follow these steps:

1. Unplug the GPS.
2. With the CD provided by Deluo in your CD drive, click on Start / Run / Browse on your computer. Find the sermouse.reg file under the folder entitled "Tools." (i.e.: open D:\Tools\, and double click the sermouse.reg file. This command will ask if you want to merge the information to the registry; please select YES.)
3. Plug the GPS back in and now the system will behave as expected.

Hint: *make sure you select "All Files" when browsing.*

You can also do it manually:

1. Connect your GPS and wait until the mouse starts jumping
2. Disconnect your GPS from the USB adapter but leave the adapter connected to your PC
3. Open Windows Device Manager
4. Right click on the device (under the pointing devices branch) and click on disable. This marks the device with a red X and will not bother you again.

Deluo GPS Diagnostics software

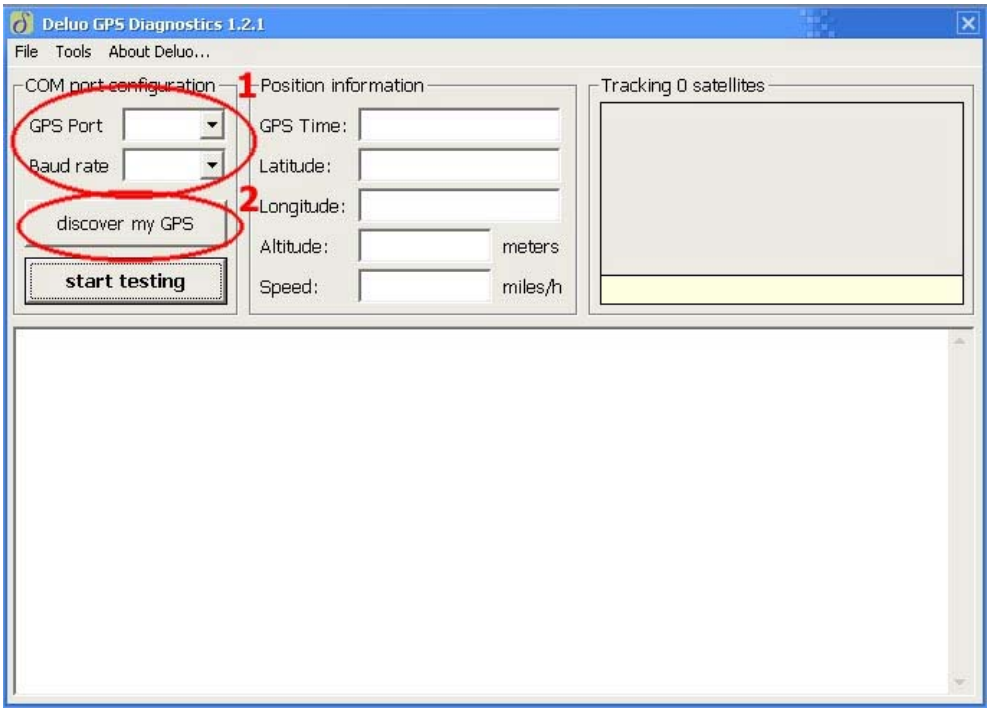
How to install the Deluo GPS Diagnostics software

You can install it by inserting the Deluo Drivers and Tools CD, then click on “Mouse type GPS” and on the next screen, click on “Install Deluo GPS Diagnostics”. You can install the Deluo GPS Diagnostics application even if you don’t have a USB adapter for GPS.

How to use the Deluo GPS Diagnostics software:

Before using this software, connect the GPS Receiver properly and install the drivers (when necessary).

1. Browse on the “Start > Programs > Deluo” menu for Deluo GPS Diagnostics and open the program (see figure below).
2. Please choose the COM port and baud rate from the drop-down boxes (shown as #1 below).
3. If you don’t know the COM port, click on “discover my GPS” button (shown as #2 below).
4. When the GPS is properly configured, text will appear on the large screen. The longitude and latitude will appear with a red background until the GPS acquires the satellite information (must be outdoors) then the background should become green.



Frequently Asked Questions

Q: Is Deluo GPS compatible with my mapping software?

A: Our GPS receivers are fully compatible with the NMEA 0183 sentence specification that most GPS mapping software use as their communication protocol. Please check out our web store for each product specs, there you will find the application we know that works fine with our GPS units.

Q: Where should I place my GPS? Can I use my GPS indoors?

A: GPS Satellites are like flashlights beaming down information from above. Dense objects such as metals and concrete will block the GPS satellites and create shadows devoid of any GPS signal. Metallic car roofs, struts that hold up the roof, wiper blades, etc. can prevent your GPS from getting a good reception. Reflective windshields and some tinting can also prevent your GPS from seeing the satellites above. For the best results - make sure that your GPS has a clear view of the sky. Try positioning your GPS in several places to see where you will get the best results. Generally speaking, your GPS will NOT work indoors. So go outside and have a great time!

Q: my GPS does not get a fixed position. My GPS is slow to acquire when driving.

A: Factory default settings for our GPS receivers makes them to do a cold-start and reset and it might take the GPS receiver over 5 minutes before acquiring a position fix. Each subsequent start should be much faster - but please allow for up to 5 minutes for the first time out of the box.

To get a clear fix: Please make sure the GPS is located outdoors with the magnet facing down (for our mouse based GPS) or label side up for our CompactFlash GPS. It is very important that the receiver is located away from buildings or high voltage cables/installations. Bad weather and metallic objects may also hinder GPS reception.

Check to see if the red light on the side of your mouse based GPS (USB / Serial / Universal) is blinking. When you have acquired satellites, this light will become steady. For the CompactFlash GPS, please check a GPS viewer program (such as our GPS diagnostic program) to see when this GPS acquires satellites.

Important: For best and fastest results, you must be standing still for the GPS to acquire satellites. Before driving, make sure your GPS has acquired the satellites. If not, it could take up to 10-15 minutes to acquire satellites while in motion. If you are experiencing issues with the GPS fading in and out of coverage while driving, try to better position it on the dashboard or roof.

Contact us

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